## Hello Year 3,

Your Maths activities this week are based on shape. Look at pages 10-55 for this week's work © .

On page 3 you will find a Times Table Rockstars practise sheet. Time yourself - how quickly can you answer the questions? There is also another times table board game on page 4 - maybe you could have a go at creating your own © or drawing a game in the garden using chalk. Have a look at Harry's and Amelia's wonderful Maths work on page 2 ©

On pages 5-9, you will find some key skills questions. Try and answer one of these per day.

I know you will do brilliantly with your Maths work this week because you are all brilliant ©

Enjoy,
Miss Robertson



Well done to
Amelia - you have worked really hard on your measuring ©


Well done to Harry you are working so hard on your key skills sheets ${ }^{\text {© }}$




## 4 times table Multiplication

 And Division Board Game Roll the dice and work out the multiplicationor division you land
on. The winner is the first to finish!


Daily Maths Key skills: Try and complete one of these per day ©
Don't worry about printing - note the answers down on a piece of paper.


How long is the toy car?


Daily Maths Key skills: Try and complete one of these per day ©
Don't worry about printing - note the answers down on a piece of paper.


Daily Maths Key skills: Try and complete one of these per day ©
Don't worry about printing - note the answers down on a piece of paper.


Daily Maths Key skills: Try and complete one of these per day ©
Don't worry about printing - note the answers down on a piece of paper.

If one represents 8 people, what do $5 \bigcirc$ represent?

| Finish this fact <br> family: <br> $8 \times 3=24$ | $24 \div 4=$ <br> $64 \div 8=$ <br> $33 \div 3=$ <br> $45 \div 5=-$ <br> $48 \div 8=$ <br> $36 \div 4=$ |
| :---: | :--- |

Do now -
Name a 4 sided 2D shape that has 4 right angles

Deepen it:
What mistake has been made in this answer?

Complete the part-whole model.


Daily Maths Key skills: Try and complete one of these per day © Don't worry about printing - note the answers down on a piece of paper.

What is the total value of the coins?


Do now Friday

How many right angles in this triangle?

Deepen it:
Look at the coins on this page.
Could Miss Robertson afford to buy a drink that cost £3?
Would she get any change?

## Maths <br> Week commencing 29h June

This week, I would like you to look at the White Rose Home Learning videos for Summer Week 10 (W/C 29th June). This week we will be looking at shapes (lessons 1 -3). There is also a lesson on telling the time to the nearest 5 minutes (lesson 4).

On the following pages I have selected the questions that I would like you to complete. There will also be some challenges. Give these a try if you like. If you find them tricky, please don't worry ©

Finally, I have included some 'extra help'/ guidance for lessons 1 - 4 on pages 39-55, have a go at these tasks if you are finding the White Rose tasks a little tricky. These tasks don't have to be completed but are just there if you need them/ are a very keen Mathematician and love doing Maths ©

There are also lots of activities on Education City which will help you with shape and time -


## Lesson 1

## Draw accurately

https://vimeo.com/432264831- Link for today's video © Copy and paste to your browser if it doesn't work.

1. Watch the video clip for today's teaching
2. Complete the questions on the next few pages
3. Also, have a look at BBC Bitesize Daily activities for extra learning if you like:
https://www.bbc.co.uk/bitesize/dailylessons

White Rose Maths

## Draw accurately

I How long is each line?
a)

$\square$ cm
b)

$\square$ cm
c)

| 0 |  |  |
| :---: | :---: | :---: |
|  |  |  |

$\square$ cm
2) Draw two lines that are each 5 cm long.
Dani says the line is 10 cm long.

a) What mistake has Dani made?
$\qquad$
b) How long is the line? $\square$
4) What is the length of each line in millimetres?
a)

$\square$ mm
b)

$\square$ mm
c) $\qquad$


- White Rose Maths 2020


## Challenges:

## Remember there are 10 mm in 1 cm

5
Use a ruler to draw the lines.
a) Draw a line 8 cm long.

b) Draw a line 80 mm long.


What do you notice about the lines you have drawn? Why is this?Use a ruler to help you answer the questions.
a) Draw a 4 cm by 4 cm square.


(7)

Draw a rectangle 8 cm long and 32 mm wide.


8

b) Use your drawing to work out the perimeter of the triangle.


## Draw accurately

White Rose
Maths Matns

1 How long is each line?
a)

$\square$ 8 cm
b)

$\square$
c)

(2)

Draw two lines that are each 5 cm long.

(3)

Dani says the line is 10 cm long.

a) What mistake has Dani made?

```
She havn't started measuring_rom 0
```

b) How long is the line?
4) What is the length of each line in millimetres?
a)

b)

$\qquad$
Answers will vary

mm
(5) Use a ruler to draw the lines.
a) Draw a line 8 cm long.

b) Draw a line 80 mm long.


What do you notice about the lines you have drawn?
Why is this?
They are the same length becaure $8 \mathrm{~cm}=80 \mathrm{~mm}$
$\qquad$
6) Use a ruler to help you answer the questions.
a) Draw a 4 cm by 4 cm square.


## Lesson 2

## Recognise and describe 2D shapes.

https://vimeo.com/432264925 - Link for today's video © copy and paste to your browser if it doesn't work.

1. Watch the video clip for today's teaching
2. Complete the questions on the next few pages
3. Also, have a look at BBC Bitesize Daily activities for extra learning if you like:
https://www.bbc.co.uk/bitesize/dailylessons


Revise the names of these 2D shapes - ) Look carefully at how many sides each shape has

## 2D Shape Word Mat



rectangle


triangle

oval


## Recognise and describe 2D shapes

1) Match the shapes to the labels.

```
pentagon
```



```
triangle
```


## hexagon

(2) Use the words to label the shapes.

b)

d)


3
Dora and Ron each have a shape.
a)


Why is Dora incorrect?
$\qquad$
b)


Why might Ron think that? Talk to a partner.
What is the mathematical name for Ron's shape?
4) Here are some shapes.
a) Circle all the quadrilaterals.


## Challenges:

c) Is this shape a square?

Circle your answer.
yes
no


5 This shape is a hexagon.


Why is it a hexagon?
$\qquad$

## Challenges:

(6)

What is the name of each shape?

$\qquad$


$\qquad$


7
Each shape has at least one pair of parallel sides.
Draw on the shapes to show the parallel sides.


## ANSWERS

Recognise and describe 2D shapes
1)

Match the shapes to the labels.

2) Use the words to label the shapes.

a)

c)

$\qquad$

b)

$\qquad$
d)

hexagon



- White Rose Maths 2020
c) Is this shape a square?

Circle your answer.
yes no


## All 4 sides are the same

 length5 This shape is a hexagon.


Why is it a hexagon?
It han 6 sides
$\frac{1+1=\pi}{1+1}$
(6)

What is the name of each shape?



nonagon $\qquad$

How do you know? Talk about it with a partner

7 Each shape has at least one pair of parallel sides.
Draw on the shapes to show the parallel sides.


## Lesson 3

## Recognise and describe 3D shapes

https://vimeo.com/432265088 - Link for today's video © Copy and paste to your browser if it doesn't work.

1. Watch the video clip for today's teaching
2. Complete the questions on the next few pages
3. Also, have a look at BBC Bitesize Daily activities for extra learning if you like:
https://www.bbc.co.uk/bitesize/dailylessons


## Properties of 3D Shapes

Cube



## Hexagonal Prism

## Rectangular

Prism


Triangular Prism


Cylinder

Octagonal Prism


## Properties of 3D Shapes



## Recognise and describe 3D shapes

1) Kim paints the faces of some 3 D shapes.

She stamps the faces on to a sheet of paper.
Match the stamp to the 3D shape.

(2) A cube is a special type of cuboid.


What is special about each face of a cube?
Talk about it with a partner.

(3) Which of the shapes is a cube? Tick your answer.

(4) Here is a cuboid.


What do you notice about the opposite faces of a cuboid?
$\qquad$
$\qquad$
(5) Match the 3D shapes to the labels.

square-based pyramid cylinder


6 Here are some shapes.
a) Circle all the triangular prisms.

b) Circle all the spheres.


Challenges:

## TOP TIPS

## Vertices/ vertex = A point where two edges meet

7 Complete the table.

| Shape | Number of <br> edges | Number of <br> faces | Number of <br> vertices |
| :--- | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |



TOP TIPS
To help you with this activity, have a look for these 3D shapes in your house. If you don't have them, you could try a cylinder (glue stick/ pringles tube) or a cuboid (cardboard box) instead.

## ANSWERS

Recognise and describe 3D shapesKim paints the faces of some 3D shapes.
She stamps the faces on to a sheet of paper.
Match the stamp to the 3D shape.

2) A cube is a special type of cuboid.


What is special about each face of a cube?
All the faces are square
(3) Which of the shapes is a cube? Tick your answer.


Here is a cuboid.


What do you notice about the opposite faces of a cuboid?

They are identical.

(5) Match the 3D shapes to the labels.


## ANSWERS

6) Here are some shapes.
a) Circle all the triangular prisms.


b) Circle all the spheres.


Complete the table.

| Shape | Number of <br> edges | Number of <br> faces | Number of <br> vertices |
| :---: | :---: | :---: | :---: |
|  | 12 | 6 | 8 |
|  | 6 | 4 | 4 |

## Lesson 4

Telling the time to the nearest 5 minutes
https://vimeo.com/432265268 - Link for today's video © copy and paste it into your browser if it doesnt work.

1. Watch the video clip for today's teaching
2. Complete the questions on the next few pages
3. Also, have a look at BBC Bitesize Daily activities for extra learning if you like:
https://www.bbc.co.uk/bitesize/dailylessons


Use this to help you with telling the time

## Telling the time to 5 minutes

Label the clock to show the number of minutes past the hour.

2 Label the clock to show what time would be shown if the minute hand was pointing to each interval.


Is there more than one possible answer for each label?

3


What mistake has Ron made?

What time is it?

4 What time is shown on each clock?
a)

c)

$\square$ minutes past $\square$

$\square$
b)

$\square$ minutes to $\square$
d)

$\qquad$

Remember: The minute hand is the long hand. The hour hand is the short hand.

## Challenges:

5 Draw the hands on the clocks to show the correct times.
a)


15 minutes past 6
c)


25 minutes to 9

7 The minute hand and the hour hand of a clock are both pointing to an even number.
It is before midday. What times could it be? Give three possible answers.
b)


15 minutes to 9
d)


5 minutes to 12

## ANSWERS

Telling the time to 5 minutes

I Label the clock to show the number of minutes past the hour.

2) Label the clock to show what time would be shown if the minute hand was pointing to each interval.


Is there more than one possible answer for each label?

3


The minute hand pointing to 2 means it is 10
minutes pack not 2 minutes mant $\qquad$
What time is it? 10 minules pant 5

4 What time is shown on each clock?
a)

c)
5
b)

d)

20
minutes to $\square$ 10 minuleo to 10

## ANSWERS

Draw the hands on the clocks to show the correct times.
a)


15 minutes past 6
b)


15 minutes to 9
c)


25 minutes to 9

7 The minute hand and the hour hand of a clock are both pointing to an even number.

It is before midday. What times could it be?
Give three possible answers.
$\qquad$
d)


5 minutes to 12

## Lesson 5

## Happy Friday ()

Can you complete the Friday Maths challenge?
https://whiterosemaths.com/homelearning/year-3/ Try questions 1-4


Useful videos to help you with shape:
Please copy them into your browser if they don't work ©
https://www.bbc.co.uk/bitesize/topics/zjv39j6/articles/zcsjaty https://www.bbc.co.uk/bitesize/topics/zjv39j6

Have a look at the activities on Education City for some more help.


Revise the names of these 2D shapes - ) Look carefully at how many sides each shape has

## 2D Shape Word Mat



rectangle


triangle

oval


## 2D Shape hunt

Create a tally of the shapes you see.
Can you see any pentagons?
Can you see any octagons?
Can you see any hexagons?
What was the most common shape?


I have lots of rectangles in my house.

## 2D Shape Colouring

## Can you colour the shapes to complete the picture?

Key:= red
$\square$ = blue
= yellow

= green


What are the names of the shapes?
You might like to design your own 2D shape colouring activity for someone to solve

## 2D Shape Properties Table

Look carefully at the properties of these 2D shapes. Write your results in the table.

| 2D Shape | Total Number <br> of Sides | Number of <br> Straight Sides | Number of <br> Curved Sides | Number of Vertices |
| :---: | :---: | :---: | :---: | :---: |
| $\square$ |  |  |  |  |
| $\square$ |  |  |  |  |
|  |  |  |  |  |

Count all the sides on the shape and then draw a line connecting it to the correct number.


## Properties of 3D Shapes

Cube



## Hexagonal Prism

## Rectangular

Prism


Triangular Prism


Cylinder

Octagonal Prism


## Properties of 3D Shapes



## 3D Shape Colouring

Use the key to colour in the 3D shapes correctly.

| Key |  |  |
| :--- | :--- | :--- |
| Shape | Name | Colour |
|  |  | blue |
|  |  | yellow |
|  |  | purple |
|  |  | green |
|  |  | reange |



## 3D Shape hunt

Create a tally of the shapes you see.
Can you see any cylinders?
Can you see any cuboids?
Can you see any cubes?
What was the most common shape?


I have lots of cylinders in my house because I love candles.

Have a look for each of these shapes in your house.

## See if you can complete this sheet.

The answers are on the next slide if you get stuck on any
Name the 3D Shape


Shape of faces:
Number of vertices: $\qquad$ Number of edges: $\qquad$ Name: $\qquad$


Shape of faces:
Number of vertices: $\qquad$ Number of edges: $\qquad$ Name: $\qquad$

Name: $\qquad$


Shape of faces:
Number of vertices: $\qquad$ Number of edges: $\qquad$ Name: $\qquad$


Shape of faces: $\qquad$ Number of vertices: $\qquad$ Number of edges: $\qquad$ Name: $\qquad$

## Name the 3D Shape Answers



Shape of faces: circular Number of vertices: $\mathbf{0}$ Number of edges: $\mathbf{0}$ Name: sphere


Shape of faces: cicular Number of vertices: $\mathbf{0}$ Number of edges: 1 Name: cone


Shape of faces: circular and rectangle
Number of vertices: $\mathbf{0}$
Number of edges: $\mathbf{2}$
Name: cylinder


Shape of faces: triangular and rectangular
Number of vertices: 6
Number of edges: 9
Name: triangular prism


Shape of faces: triangular and rectangular
Number of vertices: 5
Number of edges: $\mathbf{8}$
Name: rectangular pyramid


Shape of faces: rectangular
Number of vertices: 8
Number of edges: 12
Name: cuboid


Shape of faces: square
Number of vertices: 8
Number of edges: 12
Name: cube

Useful videos to help you with time:
Please copy them into your browser if they don't work ©
https://www.youtube.com/watch?v=QJkYONaIYQM
https://www.bbc.co.uk/bitesize/topics/zkfycdm/resources/1

Have a look at the activities on Education City for some more help.

[isg EducationCity


Use this to help you with telling the time


## Telling the Time Board Game

What time is it?

Roll a dice, move and read aloud the time shown on the clock. The first player to complete the board wins!

visit twinklcom

E.g. 10 minutes past 2.


E.g. 10 minutes to 2.



## Math ${ }^{2}$ Genius

You are all superstars ©
Thank you for working so hard, Year 3.

Send in any photos of the work you do to: info@st-jo-st.dudley.sch.uk

I would love to see what you get up to.

